

# POWERXPLORE RPX5-400

## SPECIFICATIONS

### Measured Parameters

(4) differential inputs, 1-600 Vrms, AC/DC, 0.1% rdg + 0.05% FS, 256 samples/cycle (1), 16 bit ADC

(4) inputs with CTs 1-6000 Arms CT-dependent, AC/DC, 0.1% rdg + CTs, 256 samples/cycle (1), 16 bit ADC

1 MHz High Speed Sampling, 14 bit ADC

Frequency Range, 10 mHz resolution, 15-20 Hz, 45-65 Hz or 350-450 Hz

Phase Lock Loop - Generator tracking, Standard PQ mode

### Monitoring/Compliance

IEEE 1159

IEC 61000-4-30 Class A

MIL-STD-1399

Current Inrush/Energization

Voltage Fault Recording

Long Term Monitoring w/min/max/avg

Continuous Data Logging

### Power Quality Triggers

Cycle-by-cycle analysis

256 samples/cycle; 1/2 cycle RMS steps (1)

L-L, L-N, N-G RMS Variations: Sags/swells/interruptions

RMS Recordings V & I (32 pre-fault, 10K post-fault cycles)

Waveshape Recordings (32 pre-fault, 10K post-fault cycles)

Low and Medium Frequency Transients - V & I

High Frequency Transients - V & I, 3% FS trigger

Harmonics Summary Parameters

Cross trigger V & I channels

RMS Event Characterization (IEEE or IEC)

Transient Event Characterization

### Distortion/Power/Energy

W, VA, VAR, TPF, DPF, Demand, Energy, etc.

IEEE 1459 Parameters of distorted and unbalanced

Harmonics/Interharmonics per IEC 61000-4-7

THD/Harmonic Spectrum (V,I,W) to 63rd (2)

TID/Interharmonic Spectrum (V,I) to 63rd (2)

Flicker per IEC 61000-4-15 (Pst,Plt,Sliding Plt)

Crest Factor, K Factor, Transformer Derating Factor, Telephone Interference Factor

Unbalance (max rms deviation) & sequencing components

5 User Spec Harmonics or Signaling Frequency

Vector/Arithmetic/Coincident Parameters

### Available Languages

Chinese, English, Finnish, French, German, Italian, Spanish, Swedish

### General Specifications

Size (HxWxD): 12" x 2.5" x 8" (30cm x 6.4cm x 20.3cm)

Weight: 4.2 pounds (1.9 kg)

Operating Temperature: 0° to 50° C (32° to 122° F)

Storage Temperature: -20° to 55° C (4° to 131° F)

Humidity: 10 to 90% non-condensing

System Time Clock-Crystal controlled-1 second resolution

Charger/Battery Eliminator: 90-264 VAC 47-63 Hz

Display: LCD color touch screen

Memory options (must have one): 32M-128M removable compact flashcard

### Optional Accessories

Current Probes: An extensive selection, including:

Model TR-2510A 0.1-10 A; up to 0.47" conductors

Model TR-2500A 10-500 A; up to 1/8" diameter or 2.5" x 0.2" conductors

Model TR-2520A 300-3000 A; up to 2.56" diameter or 1.97" x 5.3" (bus bar)

Model TR-2019B 1-300 A; up to 2.0" conductors (requires 116002-G1 adapter)

Flexible probes: ranging in current from 30-6000 A, 24", 36", 48"

Hall Effect Probes for AC/DC applications, 150 A or 1500 A

CT Cable Adapter (CA4300LEM)

Voltage Cable Accessory Pack (VCP4300)

Soft Carrying Case (SCC-4300)

Field Replaceable Battery Pack (BP-PX5)

External Battery Charger (XBC-PX5)

Reusable Shipping Container (RSC-4300)

Weather resistant Container (ENCL-HH)

Lockable Portable Case (LPC-4300)

Communications Interface:

RS232 FiberOptic Adapter (COMM-RS232)

USB FiberOptic Adapter (COMM-OUA)

LAN-FiberOptic Adapter (COMM-OEA)

DRAN-VIEW software: Runs under Windows 98, ME, NT, XP

NodeLink® with download, setups and meter

CD-ROM Training Program

(1) PX5-400 samples at 32 samples/cycle, 1 cycle steps at 400 Hz. Certain parameters measured at 45-65 Hz range only.

(2) Maximum harmonics to 16th at 400 Hz.

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## Power Quality Analyzer



State-of-the-art monitoring of  
50/60 and 400 Hertz systems  
in one instrument

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